```
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  SEP 01  INPADOC: New family current-awareness alert (SDI) available
 NEWS  4  SEP 01  New pricing for the Save Answers for SciFinder Wizard within
                  STN Express with Discover!
 NEWS  5  SEP 01  New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
 NEWS  6  SEP 27  STANDARDS will no longer be available on STN
 NEWS  7  SEP 27  SWETSCAN will no longer be available on STN
 NEWS  8  OCT 28  KOREAPAT now available on STN
 NEWS  9  NOV 18  Current-awareness alerts, saved answer sets, and current
                  search transcripts to be affected by CERAB, COMPUAB, ELCOM,
                  and SOLIDSTATE reloads

 NEWS EXPRESS  OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
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FILE 'HOME' ENTERED AT 11:02:28 ON 29 NOV 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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STRUCTURE FILE UPDATES:   28 NOV 2004  HIGHEST RN 790189-55-8
```

```
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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
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 NEWS  3  SEP 01   INPADOC: New family current-awareness alert (SDI) available
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 NEWS  8  OCT 28   KOREAPAT now available on STN
 NEWS  9  NOV 18   Current-awareness alerts, saved answer sets, and current
                   search transcripts to be affected by CERAB, COMPUAB, ELCOM,
                   and SOLIDSTATE reloads

 NEWS EXPRESS  OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:02:28 ON 29 NOV 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 11:02:37 ON 29 NOV 2004
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STRUCTURE FILE UPDATES:   28 NOV 2004  HIGHEST RN 790189-55-8
```

DICTIONARY FILE UPDATES: 28 NOV 2004 HIGHEST RN 790189-55-8

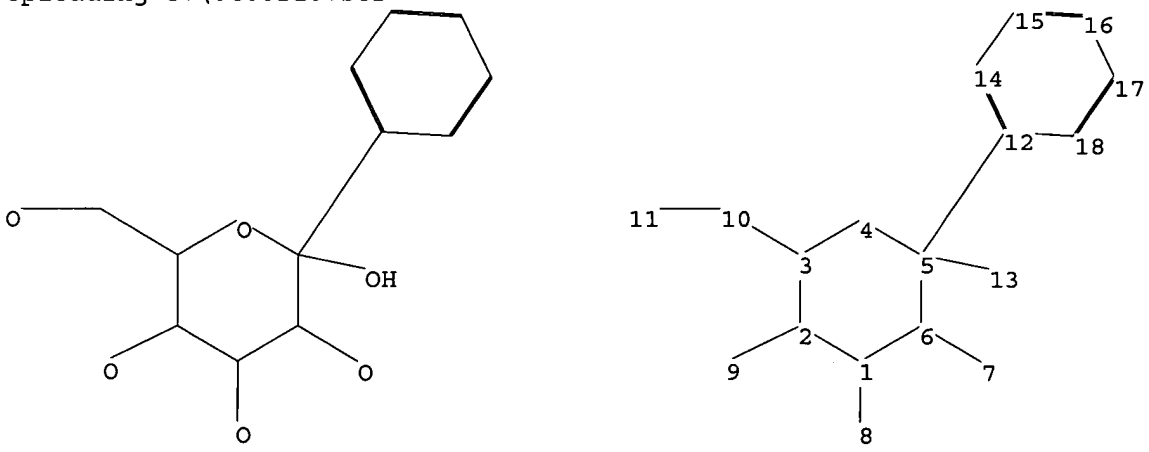
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading c:\0406210.str

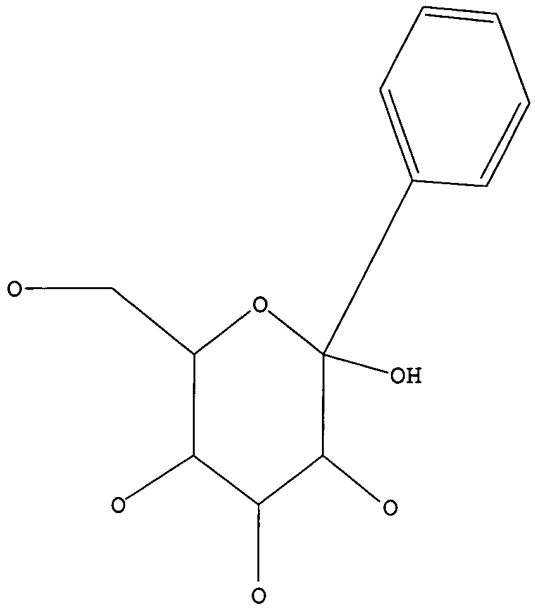


chain nodes :
7 8 9 10 11 13
ring nodes :
1 2 3 4 5 6 12 14 15 16 17 18
chain bonds :
1-8 2-9 3-10 5-12 5-13 6-7 10-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 12-14 12-18 14-15 15-16 16-17 17-18
exact/norm bonds :
1-2 1-6 1-8 2-3 2-9 3-4 4-5 5-6 5-13 6-7 10-11
exact bonds :
3-10 5-12
normalized bonds :
12-14 12-18 14-15 15-16 16-17 17-18

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:Atom 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l1 sss sam
SAMPLE SEARCH INITIATED 11:03:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     43 TO ITERATE

100.0% PROCESSED      43 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          467 TO     1253
PROJECTED ANSWERS:               0 TO        0

L2             0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 11:03:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    876 TO ITERATE

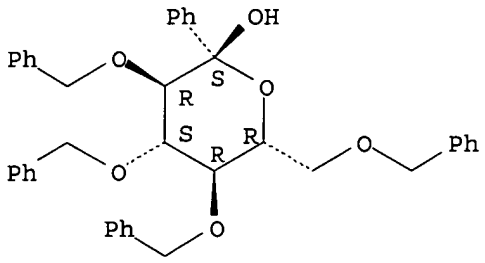
100.0% PROCESSED     876 ITERATIONS                              14 ANSWERS
SEARCH TIME: 00.00.01

L3            14 SEA SSS FUL L1

=> d scan

L3    14 ANSWERS   REGISTRY  COPYRIGHT 2004 ACS on STN
IN    α-D-Glucopyranose, 1-C-phenyl-2,3,4,6-tetrakis-O-(phenylmethyl)-
      (9CI)
MF    C40 H40 O6

Absolute stereochemistry.
```

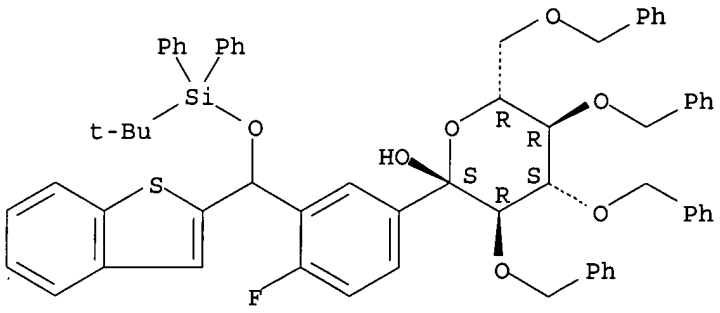


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN INDEX NAME NOT YET ASSIGNED
MF C65 H63 F O7 S Si

Absolute stereochemistry.

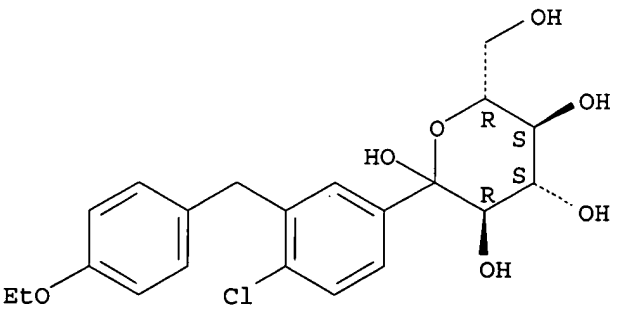


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L3 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN D-Glucopyranose, 1-C-[4-chloro-3-[(4-ethoxyphenyl)methyl]phenyl]- (9CI)
MF C21 H25 Cl O7

Absolute stereochemistry.



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s l3 and process
             60 PROCESS
              7 PROCESSES
             67 PROCESS
                  (PROCESS OR PROCESSES)
L4            0 L3 AND PROCESS

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     160.69     160.90

FILE 'CAPLUS' ENTERED AT 11:04:19 ON 29 NOV 2004
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FILE COVERS 1907 - 29 Nov 2004  VOL 141 ISS 23
FILE LAST UPDATED: 28 Nov 2004  (20041128/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> s l3 and process
             11 L3
        2017412 PROCESS
        1338817 PROCESSES
        2997560 PROCESS
                  (PROCESS OR PROCESSES)
L5            0 L3 AND PROCESS

=> s l3 and (method or synthes? or making or produc?)
             11 L3
        2735238 METHOD
        1141481 METHODS
        3555248 METHOD
                  (METHOD OR METHODS)
        1409335 SYNTHES?
         237701 MAKING
             29 MAKINGS
         237724 MAKING
                  (MAKING OR MAKINGS)
        3945378 PRODUC?
         843046 PRODN
            528 PRODNS
         843226 PRODN
```

```
                (PRODN OR PRODNS)
       4357132 PRODUC?
                (PRODUC? OR PRODN)
L6           8 L3 AND (METHOD OR SYNTHES? OR MAKING OR PRODUC?)

=> s l6 and (low(a)temperature or cryogenic)
       2218615 LOW
           402 LOWS
       2218886 LOW
                (LOW OR LOWS)
        505473 TEMPERATURE
         73294 TEMPERATURES
        569295 TEMPERATURE
                (TEMPERATURE OR TEMPERATURES)
       2749216 TEMP
        706035 TEMPS
       3059895 TEMP
                (TEMP OR TEMPS)
       3164902 TEMPERATURE
                (TEMPERATURE OR TEMP)
        319290 LOW(A)TEMPERATURE
         26384 CRYOGENIC
          5433 CRYOGENICS
         28418 CRYOGENIC
                (CRYOGENIC OR CRYOGENICS)
L7           0 L6 AND (LOW(A)TEMPERATURE OR CRYOGENIC)

=> dis l6 1-8 bib abs hitstr

L6   ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2004:569881  CAPLUS
DN   141:89317
TI   Methods of producing C-aryl glucoside SGLT2 inhibitors
IN   Deshpande, Prashant P.; Ellsworth, Bruce A.; Singh, Janak; Denzel, Theodor
     W.; Lai, Chiajen; Crispino, Gerard; Randazzo, Michael E.; Gougoutas, Jack
     Z.
PA   USA
SO   U.S. Pat. Appl. Publ., 31 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   US 2004138439        A1    20040715    US 2003-745075          20031223
     WO 2004063209        A2    20040729    WO 2003-US41373         20031223
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
             NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
             TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM,
             AZ, BY, KG, KZ
         RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
             MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2003-437847P      P     20030103
OS   MARPAT 141:89317
GI
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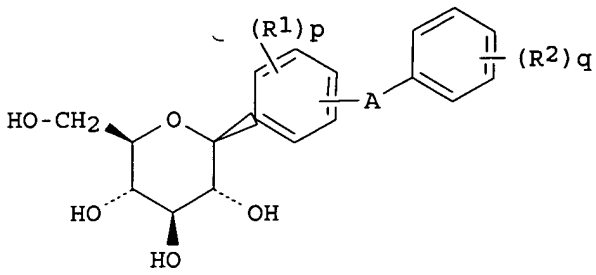


I

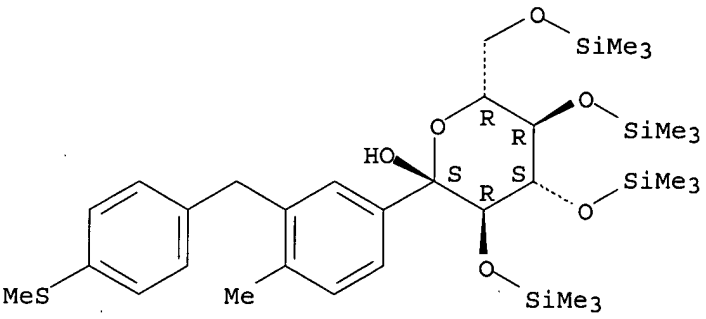
AB **Method** for the **production** of C-aryl glucoside SGLT2 inhibitors I, wherein useful for the treatment of diabetes and related diseases (no data) and intermediates thereof. The C-aryl glucosides may be complexed with amino acid complex forming reagents. Thus, I (R1 = H, R2 = 4-Et, p = q = 1, A = CH2) was prepared as SGLT2 inhibitor.

IT **714269-52-0P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(**methods** of **producing** C-aryl glucoside SGLT2 inhibitors)

RN 714269-52-0 CAPLUS

CN α-D-Glucopyranose, 1-C-[4-methyl-3-[[4-(methylthio)phenyl]methyl]phenyl]-2,3,4,6-tetrakis-O-(trimethylsilyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:804067 CAPLUS

DN 140:27985

TI C-Arylglucoside **synthesis**: triisopropylsilane as a selective reagent for the reduction of an anomeric C-phenyl ketal

AU Ellsworth, Bruce A.; Doyle, Abigail G.; Patel, Manorama; Caceres-Cortes, Janet; Meng, Wei; Deshpande, Prashant P.; Pullockaran, Annie; Washburn, William N.

CS Department of Metabolic Disease Discovery Chemistry, Bristol-Myers Squibb, Princeton, NJ, 08543, USA

SO Tetrahedron: Asymmetry (2003), 14(20), 3243-3247
CODEN: TASYE3; ISSN: 0957-4166

PB Elsevier Science B.V.

DT Journal

LA English

OS CASREACT 140:27985

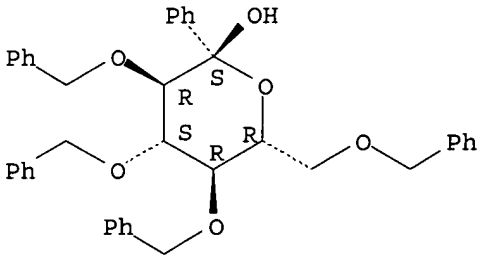
AB Reduction of tetra-O-benzyl-protected 1C-phenylglucoside using triethylsilane and BF3·OEt2 has been reported (Czernecki, S.; Ville, G. J. Organic Chemical 1989, 54, 610-612) to give exclusively 2,3,4,6-tetra-O-benzyl-β-1C-phenyl-1-deoxyglucoside. We have determined that this reduction actually gives

a 4:1 mixture of anomers (β:α). We observed that the selectivity of the reduction is influenced by the steric bulk of the silane. The use of triisopropylsilane as a reducing agent gives >35:1 ratio (β:α) of 2,3,4,6-tetra-O-benzyl-β-1C-phenyl-1-deoxyglucoside.

IT **118436-89-8**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 2,3,4,6-tetra-O-benzyl-β-1C-phenyl-1-deoxyglucoside using triisopropylsilane as a selective reagent for the reduction of an anomeric C-Ph ketal)

RN 118436-89-8 CAPLUS
CN α-D-Glucopyranose, 1-C-phenyl-2,3,4,6-tetrakis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

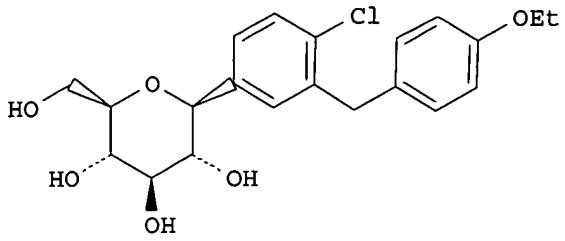


RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:736927 CAPLUS
DN 137:247879
TI Preparation of antidiabetic agents C-aryl glucoside as human SGLT2 inhibitors
IN Ellsworth, Bruce; Washburn, William N.; Sher, Philip M.; Wu, Gang; Meng, Wei
PA USA
SO U.S. Pat. Appl. Publ., 17 pp., Cont.-in-part of U.S. 6,414,126.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002137903	A1	20020926	US 2002-151436	20020520
	US 6515117	B2	20030204		
	US 6414126	B1	20020702	US 2000-679027	20001004
	ZA 2002002604	A	20030703	ZA 2002-2604	20020403
	WO 2003099836	A1	20031204	WO 2003-US15591	20030515
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 1999-158773P	P	19991012		
	US 2000-194615P	P	20000405		
	US 2000-679027	A2	20001004		
	US 2002-151436	A	20020520		

GI



I

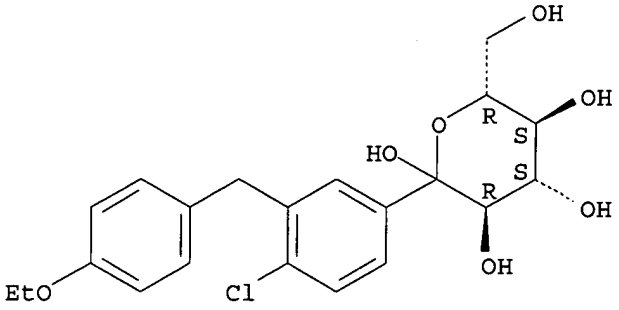
AB An SGLT2 inhibiting compound is provided having the formula I **method** is also provided for treating diabetes and related diseases employing an SGLT2 inhibiting amount of the above compound alone or in combination with another antidiabetic agent or other therapeutic agent (no data). 1A pharmaceutical combination comprising an SGLT2 inhibitor compound and an antidiabetic agent other than an SGLT2 inhibitor, for treating the complications of diabetes, an anti-obesity agent, an antihypertensive agent, an antiplatelet agent, an antiatherosclerotic agent, and/or a lipid-lowering agent (no data). A **method** for treating or delaying the progression or onset of diabetes, diabetic retinopathy, diabetic neuropathy, diabetic nephropathy, delayed wound healing, insulin resistance, hyperglycemia, hyperinsulinemia, elevated blood levels of fatty acids or glycerol, hyperlipidemia, obesity, hypertriglyceridemia, Syndrome X, diabetic complications, atherosclerosis or hypertension, or for increasing high d. lipoprotein levels, which comprises administering to a mammalian species in need of treatment a therapeutically effective amount of a compd (no data).

IT **461432-27-9P**
RL: BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antidiabetic agents C-aryl glucosides as human SGLT2 inhibitors)

RN 461432-27-9 CAPLUS

CN D-Glucopyranose, 1-C-[4-chloro-3-[(4-ethoxyphenyl)methyl]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:502892 CAPLUS

DN 133:222904

TI Glycosylidene carbenes, Part 29: Insertion into B-C and Al-C bonds: glycosylborinates, -boranes, and -alanes

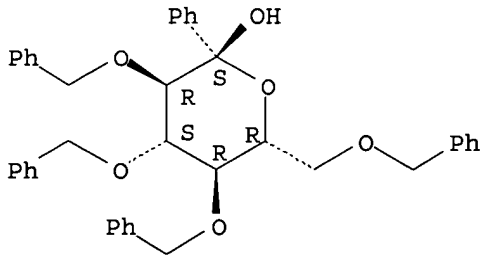
AU Wenger, Wolfgang; Vasella, Andrea

CS Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.

SO Helvetica Chimica Acta (2000), 83(7), 1542-1560

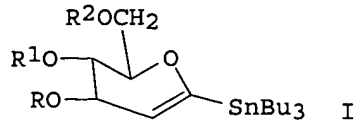
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 133:222904
AB Insertion of the glycosylidene carbenes derived from diazirines into the B-alkyl bond of B-alkyl-9-oxa-10-borabicyclo[3.3.2]decanes yielded the stable glycosylborinates in 31 to 55% yields. Crystal-structure anal. of 10-[4,5-di-O-benzyl-6,8-O-benzylidene-1-C-(4-chlorophenyl)-1,2-dideoxy-β-D-gluco-oct-3-ulo-3,7-pyranosyl]-9-oxa-10-borabicyclo[3.3.2]decane and NOEs of two derivs. show that they adopt similar conformations. The glycosylborinates are stable under acidic, basic and thermal conditions. The unprotected glycosylborinate was obtained in 80% by hydrogenolysis of 10-(2,3,4,6-tetra-O-benzyl-1-C-cyclopentyl-α-D-glucopyranosyl)-9-oxa-10-borabicyclo[3.3.2]decane. Insertion of the glycosylidene carbene derived from the tetrabenzylated gluco-diazirine into a B-C bond of BEt3, BBu3, and BPh3 led to unstable glycosylboranes that were oxidized to yield the hemiacetals in 13 to 55% yields. Insertion of the glycosylidene carbenes derived from the manno-isomer and the benzylidene-protected analog into a B-C bond of BEt3 led exclusively to hemiacetals; only the manno-isomer yielding traces of the glucal besides the hemiacetal. The glycosylidene carbene derived from the tetrabenzylated gluco-diazirin reacted with Al(iBu)3 and AlMe3 to generate reactive glycosylalanes that were hydrolyzed, yielding the C-glycosides, besides the glucals; deuteriolysis instead of protonolysis led to the monodeuterio analogs, which possess an equatorial 2H-atom at the anomeric center.
IT **118436-89-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(insertion reaction of glycosylidene carbenes into B-C and Al-C bonds to give glycosylborinates, -boranes, and -alanes)
RN 118436-89-8 CAPLUS
CN α-D-Glucopyranose, 1-C-phenyl-2,3,4,6-tetrakis-O-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:470151 CAPLUS
DN 117:70151
TI **Synthesis** of C-glycopyranosyl compounds by a palladium-catalyzed coupling reaction of 1-tributylstannyl-D-glucals with organic halides
AU Dubois, Eric; Beau, Jean Marie
CS Lab. Biochim. Struct., Univ. Orleans, Orleans, F-45067, Fr.
SO Carbohydrate Research (1992), 228(1), 103-20
CODEN: CRBRAT; ISSN: 0008-6215
DT Journal
LA English
OS CASREACT 117:70151
GI



I

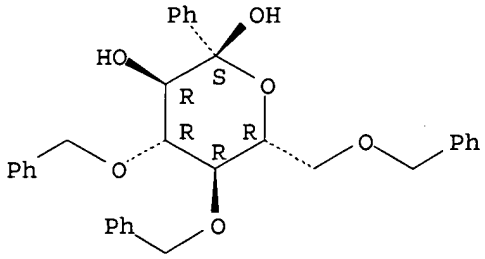
AB Tributylstannyl-D-glucals I (R-R2 = CH2Ph; R = CH2Ph, SiMe2CMe3, R1R2 = CHPh) prepared from the corresponding 1-phenylsulfonyl-D-glucals, were coupled efficiently to various organic halides in the presence of a Pd(0) catalyst. This mild reaction is specially useful for the preparation of 1-C-aryl-D-glucals and compatible with unprotected hydroxy groups or hindered aromatic bromides. It has been shown that the resulting 1-C-aryl(alkyl)-D-glycals are suited for further synthetic manipulation of the enol ether group, including stereoselective hydrogenation, hydroboration-oxidation, or epoxidn. All compds. formed resulted from the attack of the α-face of the glucal derivs. by the reagent. The reaction, extended to 1,3-, 1,4-di, and 1,3,5-tri-bromobenzenes, leads to the corresponding sym. di-(tri)-C-glucosylbenzenes. Finally, a sequential di-C-glucosylation of 1,3-dibromobenzene with two different 1-stannylated glucals was obtained.

IT **142270-15-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 142270-15-3 CAPLUS

CN α-D-Glucopyranose, 1-C-phenyl-3,4,6-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:608356 CAPLUS

DN 115:208356

TI C-Glycosides. 9. Stereospecific **synthesis** of C-glycosidic spiroketal of the papulacandins

AU Czernecki, Stanislas; Perlat, Marie Claude

CS Lab. Chim. Glucides, Univ. Pierre et Marie Curie, Paris, 75005, Fr.

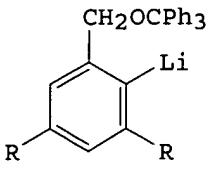
SO Journal of Organic Chemistry (1991), 56(22), 6289-92
CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

OS CASREACT 115:208356

GI



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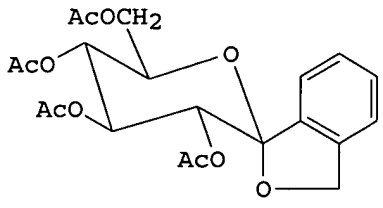


II

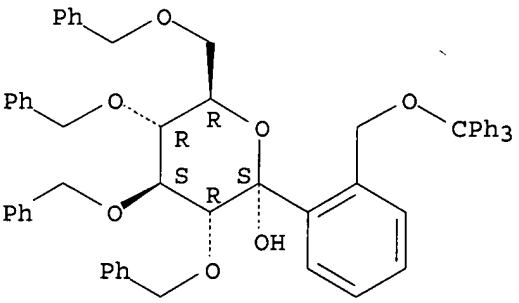
AB The reaction of lithiated benzyl ether I (R = H, OMe) with perbenzylated D-gluconolactone, followed by cyclization with BF3·Et2O provides a new stereospecific **synthesis** of C-glycosidic spiroketals e.g. II. The structure of II was determined by x-ray diffraction. This methodol. is applied to the **synthesis** of the spiroketal unit of papulacandins.

IT **132814-51-8P 135877-97-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and intramol. cyclocondensation of, spiroketal C-glycoside from)

RN 132814-51-8 CAPLUS

CN α-D-Glucopyranose, 2,3,4,6-tetrakis-O-(phenylmethyl)-1-C-[2-[(triphenylmethoxy)methyl]phenyl]- (9CI) (CA INDEX NAME)

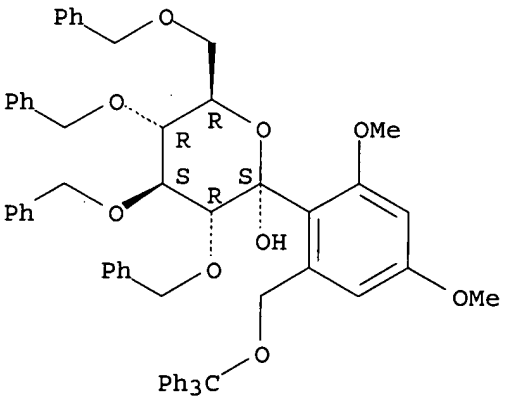
Absolute stereochemistry.



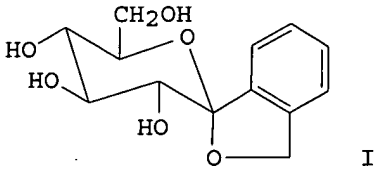
RN 135877-97-3 CAPLUS

CN α-D-Glucopyranose, 1-C-[2,4-dimethoxy-6-[(triphenylmethoxy)methyl]phenyl]-2,3,4,6-tetrakis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:143823 CAPLUS
DN 114:143823
TI A new two-step stereospecific **synthesis** of glycidic spiroacetals
AU Czernecki, Stanislas; Perlat, Marie Claude
CS Lab. Chim. Glucides, Univ. Pierre et Marie Curie, Paris, 75005, Fr.
SO Journal of Carbohydrate Chemistry (1990), 9(6), 915-17
CODEN: JCACDM; ISSN: 0732-8303
DT Journal
LA English
OS CASREACT 114:143823
GI



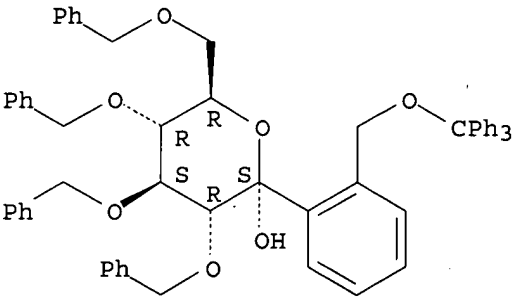
I

AB As part of a continuing program of C-C bond formation at the anomeric center of the sugar moiety, a new straightforward **synthesis** of spiroacetal I of the papulacandin type is reported.

IT **132814-51-8P 132814-56-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reductive cyclization of)

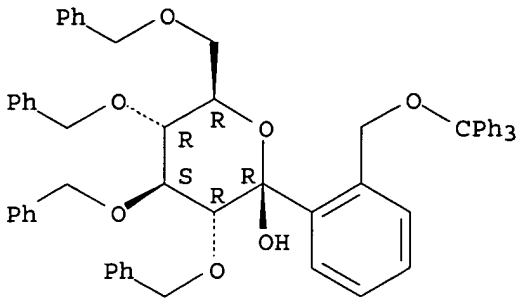
RN 132814-51-8 CAPLUS
CN α-D-Glucopyranose, 2,3,4,6-tetrakis-O-(phenylmethyl)-1-C-[2-[(triphenylmethoxy)methyl]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

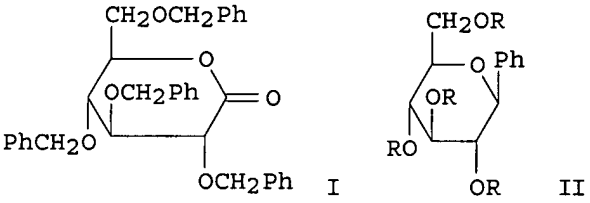


RN 132814-56-3 CAPLUS
CN β-D-Glucopyranose, 2,3,4,6-tetrakis-O-(phenylmethyl)-1-C-[2-[(triphenylmethoxy)methyl]phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1989:95662 CAPLUS
DN 110:95662
TI C-Glycosides. 7. Stereospecific C-glycosylation of aromatic and heterocyclic rings
AU Czernecki, S.; Ville, G.
CS Lab. Chim. Glucides, Univ. Pierre et Marie Curie, Paris, 75005, Fr.
SO Journal of Organic Chemistry (1989), 54(3), 610-12
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 110:95662
GI



I

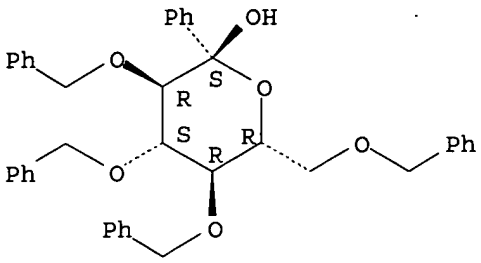
II

AB Stereospecific C-glycosylation of aromatic and heterocyclic rings can be realized by reacting the corresponding organolithium derivs. with benzylated lactones. Debenzylation proceeds without opening of the ring in pyrano series, but with opening in furano series. For example, glucopyranolactone I was treated with PhLi in THF at -78° and the **product** was reduced with Et3SiH in MeCN in the presence of BF3.Et2O to give C-glucoside II (R = PhCH2), which on hydrogenolysis followed by acetylation gave II (R = Ac).

IT **118436-89-8P 118436-90-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reduction of)

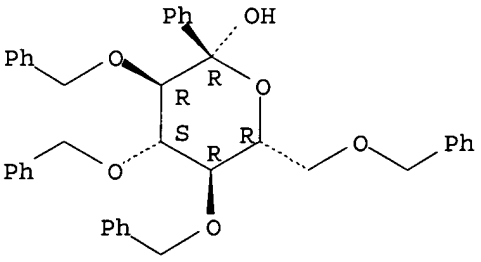
RN 118436-89-8 CAPLUS
CN α-D-Glucopyranose, 1-C-phenyl-2,3,4,6-tetrakis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 118436-90-1 CAPLUS
CN β-D-Glucopyranose, 1-C-phenyl-2,3,4,6-tetrakis-O-(phenylmethyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L3 14 S L1 SSS FULL
L4 0 S L3 AND PROCESS

FILE 'CAPLUS' ENTERED AT 11:04:19 ON 29 NOV 2004
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L6 8 S L3 AND (METHOD OR SYNTHES? OR MAKING OR PRODUC?)
L7 0 S L6 AND (LOW(A)TEMPERATURE OR CRYOGENIC)

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---Logging off of STN---

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Executing the logoff script...

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	54.40	215.30
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